



CDF Operations Report

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11-August-2003

All Experimenters Meeting



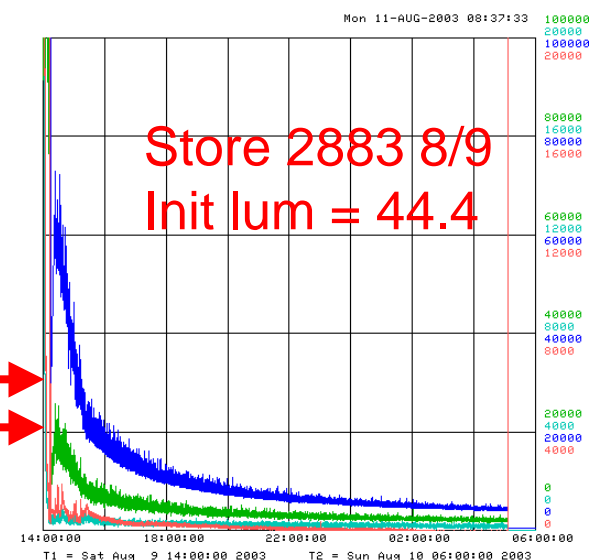
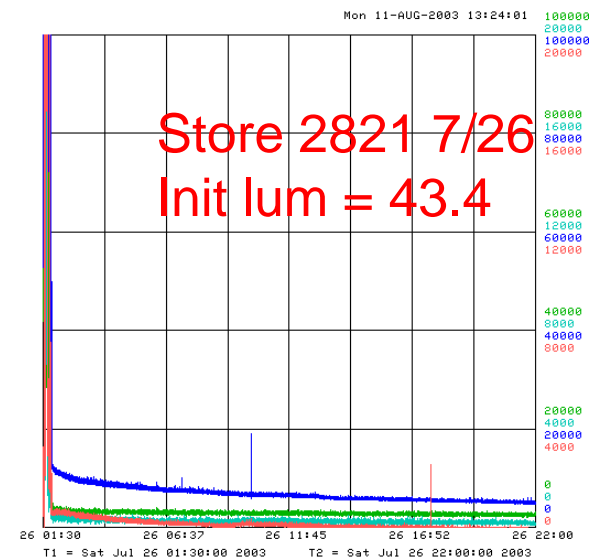
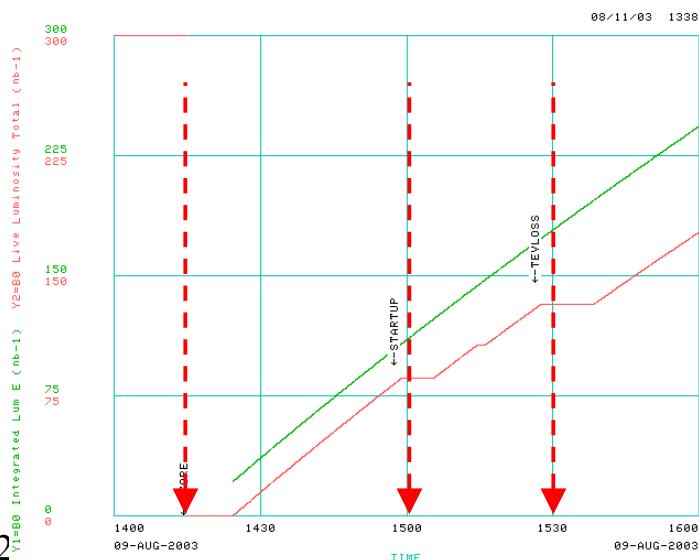
This Week's Stores

Date	Store	Inst Lum (initial)	Int Lum (delivered)	Lum to tape (ϵ)	Si Good Run (ϵ)
Mo 8/4	2859	42.9e30	1614	1510 (93.6%)	1510 (93.6%)
We 8/6	2864	37.0e30	784	644 (90.9%)	566 (72.2%)
We 8/6	2868	39.5e30	1209	1106 (91.4%)	1106 (91.4%)
Fr 8/8	2879	42.4e30	717	502 (70.0%)	434 (60.5%)
Sa 8/9	2883	44.4e30	1313	1013 (77.2%)	880 (67.0%)
Su 8/10	2887	52.1e30	975	896 (91.9%)	810 (83.2%)
Total			6.62 pb ⁻¹	5.68 pb ⁻¹ (85.8%)	5.31 pb ⁻¹ (80.2%)



Proton Loss

- High proton loss:
 - Starts since ~1 week ago
 - Limit for integrating COT/Si = 30/20 kHz
 - From the past experience, we think the high proton loss is an indication of the instability of the beam
 - Risk for permanent damage to the detector
 - Loss of today's data taking efficiency



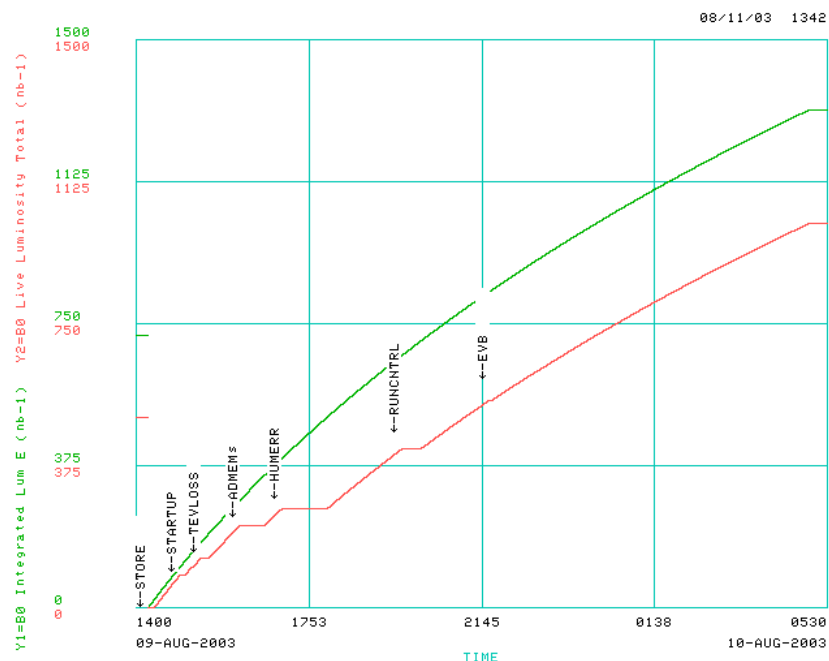


Detector operation

- COT TDC (2879)
 - one COT crate showed readout problem (~10% of COT channels)
 - Recovered by changing the readout mode of TDC
 - It happened at 3am, experts were out of town. Thanks Ron M. for help
 - 2 hours downtime (could be 30 minutes)
- Power cycling (2883)
 - One of the board in the plug calorimeter showed readout problem
 - Tried to resolve this by power cycling the 400Hz to the crate
 - We power cycled both 400 and 60 Hz , caused severe problems
 - Magnet ramping down, several HV problems, etc..
 - 2 hour downtime (could be 30 minutes)

- Controlled Accesses

- Tuesday(1), Thursday(1), Friday(3)
- Fix some Si ladders
- Challenges to recover Si ladders from more severe problems





Summary/Plan

- Major source of downtime
 - Proton loss at the beginning of the store
 - COT TDC readout problem
 - Plug calorimeter readout problem enhanced by operator error
- Lepton Photon 2003 started this morning
 - Congratulations for the record luminosity at the best timing
 - Lots of exciting physics results are being shown
 - Many thanks to Fermilab/BD for providing good beam to us